YANG TRISTA CAO

University of Maryland, College Park

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https://tristaycao.github.io/

EDUCATION

University of Maryland, College Park *August 2018 - Present*
Ph.D Computer Science Overall GPA: 3.81
Focus: Natural Language Processing
Advisor: Hal Daumé III

Bryn Mawr College *August 2014 - May 2018*
Bachelor's of Arts degree in Computer Science Overall GPA: 3.72
Concurrent major in Mathematics at Haverford College
Thesis Advisor: Lynne Butler

RESEARCH INTEREST

My research lies in the intersection of Natural Language Processing and Human-Centered AI. I am interested in developing and evaluating natural language processing models to move towards trustworthy and fair NLP systems. Specifically, the research topics I am interested in are: fairness, trustworthy NLP, stereotypes, accessibility, visual question answering (VQA), multimodality, causality, explainable AI, trust, and human-centered AI.

PUBLICATIONS

What's Different between Visual Question Answering for Machine "Understanding" Versus for Accessibility?
Yang Trista Cao*, Kyle Seelman*, Kyungjun Lee*, Hal Daumé III
AACL IJCNLP 2022 Best Theme Paper

Theory-Grounded Measurement of US Social Stereotypes in English Language Models
Yang Trista Cao*, Anna Sotnikova*, Hal Daumé III, Rachel Rudinger, Linda Zou
NAACL 2022 Long Paper

On the Intrinsic and Extrinsic Fairness Evaluation Metrics for Contextualized Language Representations
Yang Trista Cao*, Yada Pruksachatkun*, Kai-Wei Chang, Rahul Gupta, Varun Kumar, Jwala Dhamala, Aram Galstyan
ACL 2022 Short Paper

Analyzing Stereotypes in Generative Text Inference Tasks
Yang Trista Cao*, Anna Sotnikova*, Hal Daumé III, Rachel Rudinger
ACL-IJCNLP 2021 Findings Paper

Toward Gender-Inclusive Coreference Resolution:
An Analysis of Gender and Bias throughout the Machine Learning Lifecycle
Yang Trista Cao, Hal Daumé III
Computational Linguistics (preliminary version published at ACL 2019)

Controlling the Specificity of Clarification Question Generation
Yang Trista Cao, Sudha Rao, Hal Daumé III
Proceedings of the 2019 Workshop on Widening NLP

WORK EXPERIENCE

Amazon Research Intern, Cambridge, USA   May 2021 - August 2021
Mentor: Rahul Gupta and Kaiwei Chang
Project: On the Intrinsic and Extrinsic Fairness Evaluation Metrics for Contextualized Language Representations

AWARDS AND SCHOLARSHIPS

Best Theme Paper Award, AACL IJCNLP 2022.
Dean's Fellowship, University of Maryland, 2018-2020.

SERVICE

Co-organizer, the TrustNLP workshop, ACL 2022-2023.
Co-mentor, Welcoming Women to Computing Research, Tech + Research 2021.